

FORM PTO-1449

ATTY. DOCKET NO.
2060.0030005APPLICATION NO.
09/357,737**SECOND SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT**APPLICANT(S)
SETTE *et al.*FILING DATE
July 19, 1999ART UNIT
1644**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>B3</i>		AA100	4,235,877	11/25/1980	Fullerton	—	06/27/1979
		AB100	4,487,715	12/11/1984	Nitecki <i>et al.</i>	—	07/09/1982
		AC100	4,599,230	07/08/1986	Milich <i>et al.</i>	—	03/09/1984
		AD100	4,837,028	06/06/1989	Allen	—	12/24/1986
		AE100	5,013,548	05/07/1991	Haynes <i>et al.</i>	—	01/21/1988
		AF100	5,128,319	07/07/1992	Arlinghaus	—	09/20/1989
		AG100	5,736,142	04/07/1998	Sette <i>et al.</i>	—	09/14/1994
		AH100	5,783,567	07/21/1998	Hedley <i>et al.</i>	—	01/22/1997
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>B3</i>		AL100	EP 0 378 881	06/09/1993	Europe	—	Yes No
<i>B3</i>		AM100	EP 0 429 816	06/05/1991	Europe	—	Yes No
<i>B3</i>		AN100	EP 0 433 242	06/19/1991	Europe	—	Yes No
<i>B3</i>		AO100	WO 93/03764	03/04/1993	WIPO WO	—	Yes No
		APT00	WO 94/20127	09/15/1994	WIPO		Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>B3</i>	AR	100	Alexander, J., <i>et al.</i> , "Development of High Potency Universal DR-Restricted Helper Epitopes by Modification of High Affinity DR-Blocking Peptides," <i>Immunity</i> 1:751-761, Cell Press (1994)
	AS	100	Arndt, S.O., <i>et al.</i> , "Selection of the MHC Class II-Associated Peptide Repertoire by HLA-DM," <i>Immunol. Res.</i> 16:261-272, Humana Press (December 1997)
	AT	100	Barouch, D., <i>et al.</i> , "HLA-A2 Subtypes Are Functionally Distinct in Peptide Binding and Presentation," <i>J. Exp. Med.</i> 182:1847-1856, Rockefeller University Press (1995)

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M1	AL101	WO 95/07707	03/23/1995	WIPO WO	—	—	Yes No
M1	AM101	WO 96/22067	07/25/1996	WIPO WO	—	—	Yes No
↓	AN101	WO 97/41440	11/06/1997	WIPO WO	—	—	Yes No
↓	AO101	WO 97/34617	09/25/1997	WIPO WO	—	—	Yes No
↓	AP101	WO 01/00225	01/04/2001	WIPO WO	—	—	Yes No

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M1	AR	101	Bender, A., <i>et al.</i> , "Improved methods for the generation of dendritic cells from nonproliferating progenitors in human blood," <i>J. Immunol. Methods</i> 196:121-135, Elsevier Science (1996)
M1	AS	101	Ben-Yedidia, T., and Arnon, R., "Design of peptide and polypeptide vaccines," <i>Curr. Opin. Biotechnol.</i> 8:442-448, Current Biology, Ltd. (1997)
M1	AT	101	Carbone, F.R., and Bevan, M.J., "Induction of Ovalbumin-Specific Cytotoxic T Cells by In Vivo Peptide Immunization," <i>J. Exp. Med.</i> 169:603-612, Rockefeller University Press (1989)

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M1	AR	102	Carbone, F.R., <i>et al.</i> , "Induction of Cytotoxic T Lymphocytes by Primary In Vitro Stimulation with Peptides," <i>J. Exp. Med.</i> 167:1767-1779, Rockefeller University Press (1988)
M1	AS	102	Cassell, D., and Forman, J., "Linked Recognition of Helper and Cytotoxic Antigenic Determinants for the Generation of Cytotoxic T Lymphocytes," <i>Ann. N.Y. Acad. Sci.</i> 532:51-60, New York Academy Of Sciences (1991)
	AT	102	Deres, K., <i>et al.</i>, "In vivo priming of virus-specific cytotoxic T lymphocytes with synthetic lipopeptide vaccine," <i>Nature</i> 342:561-564, Nature Publishing Group (1989)

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133	AR	103	del Guercio, M-F., <i>et al.</i> , "Potent immunogenic short linear peptide constructs composed of B cell epitopes and Pan DR T Helper Epitopes (PADRE) for antibody responses <i>in vivo</i> ," <i>Vaccine</i> 15:441-448, Elsevier Science (March 1997)
↓	AS	103	DiBrino, M., <i>et al.</i> , "Endogenous Peptides with Distinct Amino Acid Anchor Residue Motifs Bind to HLA-A1 and HLA-B8," <i>J. Immunol.</i> 152:620-631, American Association of Immunologists (1994)
↓	AT	103	DiBrino, M., <i>et al.</i> , "The HLA-B14 Peptide Binding Site Can Accommodate Peptides with Different Combinations of Anchor Residues," <i>J. Biol. Chem.</i> 269:32426-32434, American Society for Biochemistry and Molecular Biology (1994)

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ms	AR	104	Donnelly, J.J., <i>et al.</i> , "DNA Vaccines," <i>Annu. Rev. Immunol.</i> 15:617-648, Annual Reviews Inc. (April 1997)
	AS	104	Francis, M.J., <i>et al.</i> , "Non-responsiveness to a foot-and-mouth disease virus peptide overcome by addition of foreign helper T-cell determinants," <i>Nature</i> 330:168-170, Nature Publication Group (1987)
	AT	104	Fynan, E.F., <i>et al.</i> , "DNA vaccines: Protective immunizations by parental, mucosal, and gene-gun inoculations," <i>Proc. Natl. Acad. Sci. USA</i> 90:11478-11482, National Academy of Sciences (1993)

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	AR	105	Gileadi, U., <i>et al.</i> , "Effect of epitope flanking residues on the presentation of N-terminal cytotoxic T lymphocyte epitopes," <i>Eur. J. Immunol.</i> 29:2213-2222, WILEY-VCH Verlag GmbH (July 1999)
	AS	105	Golvano, J., <i>et al.</i> , "Polarity of immunogens: implications for vaccine design," <i>Eur. J. Immunol.</i> 20:2363-2366, VCH Verlagsgesellschaft mbH (1990)
	AT	105	Gulukota, K., <i>et al.</i> , "Two Complementary Methods for Predicting Peptides Binding Major Histocompatibility Complex Molecules," <i>J. Mol. Biol.</i> 267:1258-1267, Academic Press Limited (April 1997)

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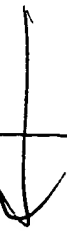

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>106</u>	Hahn, Y.S., <i>et al.</i> , "CD8 ⁺ T Cell Recognition of an Endogenously Processed Epitope is Regulated Primarily by Residues within the Epitope," <i>J. Exp. Med.</i> 176:1335-1341, Rockefeller University Press (1992)
	AS	<u>106</u>	Hahn, Y.S., <i>et al.</i> , "Presentation of Viral Antigen to Class I Major Histocompatibility Complex-Restricted Cytotoxic T Lymphocyte. Recognition of an Immunodominant Influenza Hemagglutinin Site by Cytotoxic T Lymphocyte is Independent of the Position of the Site in the Hemagglutinin Translation Product," <i>J. Exp. Med.</i> 174:733-736, Rockefeller University Press (1991)
	AT	<u>106</u>	Hammer, J., <i>et al.</i> , "Precise Prediction of Major Histocompatibility Complex Class II-Peptide Interaction Based on Peptide Side Chain Scanning," <i>J. Exp. Med.</i> 180:2353-2358, Rockefeller University Press (1994)

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ms	AR	107	Hill, C.M., <i>et al.</i> , "Exploration of Requirements for Peptide Binding to HLA DRB1*0101 and DRB1*0401," <i>J. Immunol.</i> 152:2890-2898, American Association of Immunologists (1994)
↓	AS	107	Huczko, E.L., <i>et al.</i> , "Characteristics of Endogenous Peptides Eluted from the Class I MHC Molecule HLA-B7 Determined by Mass Spectrometry and Computer Modeling," <i>J. Immunol.</i> 151:2572-2587, American Association of Immunologists (1993)
↓	AT	107	Ishioka, G.Y., <i>et al.</i> , "Class I MHC-restricted, peptide specific cytotoxic T lymphocytes generated by peptide priming in vivo," in <i>Vaccines90: Modern Approaches to New Vaccines Including Prevention of AIDS</i> , Brown, F., <i>et al.</i> , eds., Cold Spring harbor Laboratory Press, Cold Spring Harbor, NY, pp. 7-11 (1990)

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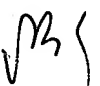

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	AR	<u>108</u>	Ishioka, G.Y., <i>et al.</i> , "Induction of Class I MHC-Restricted, Peptide-Specific Cytolytic T Lymphocytes by Peptide Priming In Vivo," <i>J. Immunol.</i> 143:1094-1100, American Association of Immunologists (1989)
	AS	<u>108</u>	Jardetzky, T.S., <i>et al.</i> , "Peptide binding to HLA-DR1: a peptide with most residues substituted to alanine retains MHC binding," <i>EMBO J.</i> 9:1797-1803, Oxford University Press (1990)
	AT	<u>108</u>	Kast, W.M., <i>et al.</i> , "Protection against lethal Sendai virus infection by <i>in vivo</i> priming of virus-specific cytotoxic T lymphocytes with a free synthetic peptide," <i>Proc. Natl. Acad. Sci. USA</i> 88:2283-2287, National Academy of Sciences (1991)

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	AR	102	Kondo, A., <i>et al.</i> , "Two distinct <i>HLA-A*0101</i> -specific submotifs illustrate alternative peptide binding modes," <i>Immunogenetics</i> 45:249-258, Springer-Verlag (January 1997)
	AS	102	Kubitscheck, U., <i>et al.</i> , "Peptide Binding to Class I Molecules of the Major Histocompatibility Complex on the Surface of Living Target Cells," <i>Scand. J. Immunol.</i> 36:341-348, Blackwell Scientific Publications (1992)
	AT	102	Kubo, R.T., <i>et al.</i> , "Definition of Specific Peptide Motifs for Four Major <i>HLA-A</i> Alleles," <i>J. Immunol.</i> 152:3913-3924, American Association of Immunologists (1994)

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JB1	AR	110	Kumar, A., <i>et al.</i> , "Universal T Helper Cell Determinants Enhance Immunogenicity of a <i>Plasmodium falciparum</i> Merozoite Surface Antigen Peptide," <i>J. Immunol.</i> 148:1499-1505, American Association of Immunologists (1992)
J	AS	110	Lasarte, J-J., <i>et al.</i> , "Induction of Cytotoxic T Lymphocytes in Mice against the Principal Neutralizing Domain of HIV-1 by Immunization with an Engineered T-Cytotoxic-T-Helper Synthetic Helper Peptide Construct," <i>Cell. Immunol.</i> 141:211-218, Academic Press Inc. (1992)
J	AT	110	Madden, D.R., <i>et al.</i> , "The structure of HLA-B27 reveals nonamer self-peptides bound in an extended conformation," <i>Nature</i> 353:321-325, Nature Publishing Group (1991)

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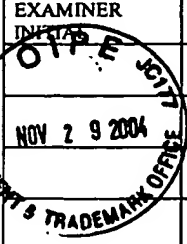
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	AR	<u>111</u>	Maier, R., <i>et al.</i> , "Peptide motifs of HLA-A3, -A24, and -B7 molecules as determined by pool sequencing," <i>Immunogenetics</i> 40:306-308, Springer-Verlag (1994)
	AS	<u>111</u>	Martinon, F., <i>et al.</i> , "Immunization of Mice with Lipopeptides Bypasses the Prerequisite for Adjuvant," <i>J. Immunol.</i> 149:3416-3422, American Association of Immunologists (1992)
	AT	<u>111</u>	Niedermann, G., <i>et al.</i> , "Contribution of Proteasome-Mediated Proteolysis to the Hierarchy of Epitopes Presented by Major Histocompatibility Complex Class I Molecules," <i>Immunity</i> 2:289-299, Cell Press (1995)

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M	AR	112	Niedermann, G., <i>et al.</i> , "The specificity of proteasomes: impact on MHC class I processing and presentation of antigens," <i>Immunol. Rev.</i> 172:29-48, Munksgaard (December 1999)
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↓	AT	112	O'Sullivan, D., <i>et al.</i> , "Characterization of the Specificity of Peptide Binding to Four DR Haplotypes," <i>J. Immunol.</i> 145:1799-1808, American Association of Immunologists (1990)

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1433	AR	113	O'Sullivan, D., <i>et al.</i> , "On the Interaction of Promiscuous Antigenic Peptides with Different DR Alleles," <i>J. Immunol.</i> 147:2663-2669, American Association of Immunologists (1991)
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	AR	114	Penna, A., <i>et al.</i> , "Cytotoxic T Lymphocytes Recognize an HLA-A2-Restricted Epitope Within the Hepatitis B Virus Nucleocapsid Antigen," <i>J. Exp. Med.</i> 174:1565-1570, Rockefeller University Press (1991)
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BS	AR	115	Rammensee, H-G., <i>et al.</i> , "SYFPEITHI: database for MHC ligands and peptide motifs," <i>Immunogenetics</i> 50:213-219, Springer-Verlag (November 1999)
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


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	AS	<u>116</u>	Schaeffer, E.B., <i>et al.</i> , "Relative contribution of 'determinant selection' and 'holes in the T-cell repertoire' to T-cell responses," <i>Proc. Natl. Acad. Sci. USA</i> 86:4649-4653, National Academy of Sciences (1989)
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	AT	117	Sette, A., <i>et al.</i> , "Effect of Conformational Propensity of Peptide Antigens in Their Interaction with MHC Class II Molecules," <i>J. Immunol.</i> 143:1268-1273, American Association of Immunologists (1989)

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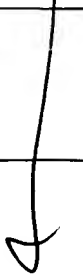

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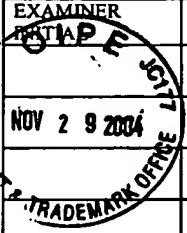
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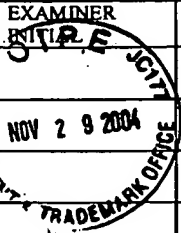
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	AR	121	Sudo, T., <i>et al.</i> , "Differences in MHC Class I Self Peptide Repertoires Among HLA-A2 Subtypes," <i>J. Immunol.</i> 155:4749-4756, American Association of Immunologists (1995)
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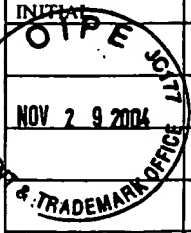
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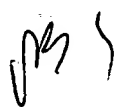


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	AR	<u>122</u>	Townsend, A., and Bodmer, H., "Antigen Recognition by Class I-Restricted T Lymphocytes," <i>Ann. Rev. Immunol.</i> 7:601-624, Annual Reviews, Inc. (1989)
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	AR	<u>124</u>	Wiesmüller, K-H., <i>et al.</i> , "Lipopeptide-Helper-T-Cell Epitope-CTL Epitope Conjugate Induces Antibodies Against the CTL Epitope," <i>Innovation Perspective Solid Phase Synthesis Collect. Papers, Int. Symp. 2nd</i> , pp. 499-502 (1991)
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	AR	<u>125</u>	Zhou, X., <i>et al.</i> , "In vivo primary induction of virus-specific CTL by immunization with 9-mer synthetic peptides," <i>J. Immunol. Methods</i> 153:193-200, Elsevier Science Publishers B.V. (1992)
	AS	<u>125</u>	Zinkernagel, R.M., <i>et al.</i> , "The Lymphoreticular System in Triggering Virus Plus Self-Specific Cytotoxic T Cells: Evidence for T Help," <i>J. Exp. Med.</i> 147:897-911, Rockefeller University Press (1978)
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1349 THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		NOV 29 2004 U.S. PATENT & TRADEMARK OFFICE		ATTY. DOCKET No. 2060.0030005		APPLICATION No. 09/357,737	
				APPLICANT(S) SETTE <i>et al.</i>		FILING DATE July 19, 1999	
				ART UNIT 1644			

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA200	5,980,899	11/09/1999	Berzofsky <i>et al.</i>			06/10/1992
	AB200	6,150,087	11/21/2000	Chien			05/18/1995
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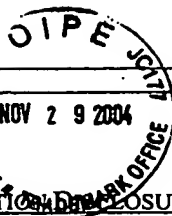
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>W21</i>	AL200	WO 95/25122	09/21/1995	WIPO W ^o	—	—	Yes No
<i>W31</i>	AM200	WO 97/34621	09/25/1997	WIPO W ^o	—	—	Yes No
<i>W</i>	AN200	EP 0 318 216 B1	05/31/1989	Europe	—	—	Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>W31</i>	AR	<u>200</u>	Cerny, A., <i>et al.</i> , "Induction <i>in vitro</i> of a primary human antiviral cytotoxic T cell response," <i>Eur. J. Immunol.</i> 25:627-630, VCH Verlagsgesellschaft (1995)
<i>W21</i>	AS	<u>200</u>	Chang, K-M., <i>et al.</i> , "Identification of HLA-A3 and -B7-Restricted CTL Response to Hepatitis C Virus in Patients with Acute and Chronic Hepatitis C," <i>J. Immunol.</i> 162:1156-1164, American Association of Immunologists (January 1999)
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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NOV 29 2004

ATTY. DOCKET NO.
2060.0030005APPLICATION NO.
09/357,737APPLICANT(S)
SETTE *et al.*FILING DATE
July 19, 1999ART UNIT
1644**THIRD SUPPLEMENTAL INFORMATION AND CLOSURE
STATEMENT****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

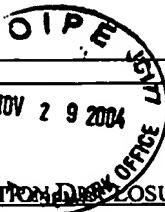
	AR	201	Koziel, M.J., <i>et al.</i> , "Hepatitis C Virus (HCV)-Specific Cytotoxic T Lymphocytes Recognize Epitopes in the Core and Envelope Proteins of HCV," <i>J. Virol.</i> 67:7522-7532, American Society For Microbiology (1993)
	AS	201	Lamonaca, V., <i>et al.</i> , "Conserved Hepatitis C Virus Sequences are Highly Immunogenic for CD4 ⁺ T Cells: Implications for Vaccine Development," <i>Hepatology</i> 30:1088-1098, Williams & Wilkins (October 1999)
	AT	201	Oseroff, C., <i>et al.</i> , "Pools of lipidated HTL-CTL constructs prime for multiple HBV and HCV CTL epitope responses," <i>Vaccine</i> 16:823-833, Elsevier Science (April 1998)

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2/10/2001

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FORM PTO-1449

ATTY. DOCKET No.
2060.0030005

APPLICATION No.
09/357,737

APPLICANT(S)
SETTE *et al.*

FILING DATE
July 19, 1999

ART UNIT
1644

THIRD SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	202	Rammensee, H-G., <i>et al.</i> , "MHC ligands and peptide motifs: first listing," <i>Immunogen.</i> 41:178-228, Springer-Verlag (1995)
mi	AS	202	Sarobe, P., <i>et al.</i> , "Enhanced In Vitro Potency and In Vivo Immunogenicity of a CTL Epitope from Hepatitis C Virus Core Protein following Amino Acid Replacement at Secondary HLA-A2.1 Binding Positions," <i>J. Clin. Invest.</i> 102:1239-1248, American Society for Clinical Investigation (September 1998)
mi	AT	202	Schulz, M., <i>et al.</i> , "Peptide-induced antiviral protection by cytotoxic T cells," <i>Proc. Natl. Acad. Sci. USA</i> 88:991-993, National Academy of Sciences (1991)

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ATTY. DOCKET NO.

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09/357,737

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SETTE *et al.*

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ART UNIT

1644

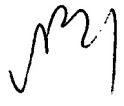

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	203	Shirai, M., <i>et al.</i> , "Use of Intrinsic and Extrinsic Helper Epitopes for In Vivo Induction of Anti-Hepatitis C Virus Cytotoxic T Lymphocytes (CTL) with CTL Epitope Peptide Vaccines," <i>J. Infect. Dis.</i> 173:24-31, University of Chicago Press (1996)
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